

Patent claims

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- 1. Device of a energetically self-sufficient transponder, characterized by
- a converter to convert ambient energy into a alternating quantity and into energy for modulation of a reflector which can be modulated via the alternating quantity.
- 2. Device in accordance with Claim 1, characterized in that the reflector is a reflector for an electromagnetic signal, especially for a high-frequency signal. 10
  - 3. Device in accordance with one of the previous claims, characterized in that, the device features an antenna.
- 4. Device in accordance with one of the previous claims, 15 characterized in that, the device is a backscatter transponder.
  - 5. Device in accordance with one of the previous claims, characterized in that, the device is set up to measure a measured quantity.
- 6. Device in accordance with Claim 5, 20 characterized in that the converter converts the ambient energy as a function of a measured quantity into the alternating quantity.
  - 7. Device in accordance with one of the Claims 5 or 6,
- 25 the device features means to influence the alternating quantity as a function of a measured quantity.
  - 8. Device in accordance with one of the previous claims, characterized by

means for generating a first alternating quantity and a second alternating quantity

- 9. Device in accordance with Claim 8, characterized in that
- 5 the first and the second alternating quantity are derived alternating quantities, to generate the first and the second alternating quantity an original alternating quantity is able to be split up and after the split the first and the second alternating quantity are able to be influenced differently by a measured 10 quantity.
  - 10. Device in accordance with Claim 8,
    characterized by
    a second converter to generate the second alternating quantity.

## 11. Method

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with an energetically self-sufficient transponder with a converter,
ambient energy is converted into an alternating quantity and into
energy for modulation of a reflector, with the reflector being
modulated via the alternating quantity.

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